

WHAT IS CLAIMED IS:

1. A method of adjusting amplification gain for a communication signal, comprising the steps of:

storing a predetermined standard reception sensitivity value;

10 amplifying the communication signal at an amplification level at a first unit;

transmitting the amplified communication signal from the first unit to a second unit;

receiving the communication signal at the second unit;

comparing the received communication signal to the predetermined standard 15 reception sensitivity value to generate a comparison signal;

adjusting the amplification level at the first unit based upon the comparison signal until a desirable amplification is reached;

transmitting the amplification level from the first unit to the second unit upon achieving the desirable amplification; and

20 storing the amplification level at the second unit for amplification gain at the second unit.

2. The method of adjusting amplification gain for a communication signal according claim 1 further comprising a steps of:

amplifying the communication signal at the stored amplification level at the

25 second unit; and

transmitting the amplified communication signal from the second unit to the first unit.

5 3. The method of adjusting amplification gain for a communication signal according
claim 1 wherein the predetermined standard reception sensitivity value is stored in the
first unit.

4. The method of adjusting amplification gain for a communication signal according
claim 1 wherein the predetermined standard reception sensitivity value is stored in the
10 second unit.

5. The method of adjusting amplification gain for a communication signal according
claim 1 wherein said comparing takes place in the second unit.

6. The method of adjusting amplification gain for a communication signal according
15 claim 1 wherein said comparing takes place in the first unit.

7. The method of adjusting amplification gain for a communication signal according
claim 6 further comprising an additional step of transmitting the received communication
signal from the second unit to the first unit prior to said comparing.

8. The method of adjusting amplification gain for a communication signal according
20 claim 6 wherein the predetermined standard reception sensitivity value is stored in the
second unit and further comprising additional steps of:
 transmitting the stored predetermined standard reception sensitivity value from
 the second unit to the first unit; and
 transmitting the received communication signal from the second unit to the first
25 unit prior to said comparing.

5 9. The method of adjusting amplification gain for a communication signal according
claim 1 wherein said adjusting increments the amplification level by a predetermined
unit.

10 10. A system for adjusting amplification gain for a communication signal, comprising:
a first unit including a first amplifier for amplifying the communication signal at
an amplification level, a first transmitter connected to the amplifier for transmitting the
amplified communication signal and a first memory for storing an amplification level;
and
a second unit connected to said first unit including a receiver for receiving the
communication signal, a second memory for storing a predetermined standard reception
sensitivity value and a comparator for comparing the received communication signal to
the predetermined standard reception sensitivity value to generate a comparison signal,
wherein said first unit adjusts the amplification level of the first amplifier to a desirable
amplification level based upon the comparison signal until a desirable amplification is
reached at said second unit, said first unit storing the amplification level in the first
20 memory, said first unit transmitting the desirable amplification level to said second unit
upon achieving the desirable amplification, the second unit storing the desirable
amplification level.

11. The system for adjusting amplification gain for a communication signal according
claim 10 wherein said second unit further comprises a second amplifier for amplifying
25 the communication signal at the stored desirable amplification level and a second
transmitter connected to the second amplifier for transmitting the amplified communication
signal from said second unit to said first unit.

5 12. The system for adjusting amplification gain for a communication signal according
claim 10 wherein said first unit increments the amplification level by a predetermined
unit.

13. The system for adjusting amplification gain for a communication signal according
claim 10 further comprising a cable for connecting said first unit and said second unit to
10 transmit the amplified communication signal.

14. The system for adjusting amplification gain for a communication signal according
claim 10 further comprising an antenna connected to said second unit and a network
connected to said first unit.

15 15. A system for adjusting amplification gain for a communication signal, comprising:
a first unit including a first amplifier for amplifying the communication signal at
an amplification level, a first transmitter connected to the amplifier for transmitting the
amplified communication signal, a first memory for storing a predetermined standard
reception sensitivity value and a comparator for comparing two signals; and
20 a second unit connected to said first unit including a receiver for receiving the
communication signal, said second unit transmitting the received communication signal
back to said first unit, wherein the comparator compares the received communication
signal from said second unit to the predetermined standard reception sensitivity value to
generate a comparison signal, said first unit adjusting the amplification level of the first
amplifier to a desirable amplification level based upon the comparison signal until a
25 desirable amplification is reached at said second unit, said first unit transmitting the

5 desirable amplification level to said second unit upon achieving the desirable amplification, said second unit storing the desirable amplification level.

16. The system for adjusting amplification gain for a communication signal according claim 15 wherein said second unit further comprises a second amplifier for amplifying the communication signal at the stored desirable amplification level and a second 10 transmitter connected the second amplifier for transmitting the amplified communication signal from said second unit to said first unit.

17. The system for adjusting amplification gain for a communication signal according claim 15 wherein said first unit increments the amplification level by a predetermined unit.

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18. The system for adjusting amplification gain for a communication signal according claim 15 further comprising a cable for connecting said first unit and said second unit to transmit the amplified communication signal.

19. The system for adjusting amplification gain for a communication signal according 20 claim 15 further comprising an antenna connected to said second unit and a network connected to said first unit.

20. A system for adjusting amplification gain for a communication signal, comprising:
a first unit including a first amplifier for amplifying the communication signal at an amplification level, a first transmitter connected to the amplifier for transmitting the 25 amplified communication signal, a first memory for storing an amplification value and a comparator for comparing two signals; and

5 a second unit connected to said first unit including a receiver for receiving the communication signal and a second memory for storing a predetermined standard reception sensitivity value, said second unit sending the predetermined standard reception sensitivity value to the first memory in said first unit, said second unit transmitting the received communication signal back to said first unit, wherein the comparator compares
10 the received communication signal from said second unit to the predetermined standard reception sensitivity value to generate a comparison signal, said first unit adjusting the amplification level of the first amplifier to a desirable amplification level based upon the comparison signal until a desirable amplification is reached at said second unit, said first unit transmitting the desirable amplification level to said second unit upon achieving the
15 desirable amplification, said second unit storing the desirable amplification level.

21. The system for adjusting amplification gain for a communication signal according claim 20 wherein said second unit further comprises a second amplifier for amplifying the communication signal at the stored desirable amplification level and a second
20 transmitter connected to the second amplifier for transmitting the amplified communication signal from said second unit to said first unit.

22. The system for adjusting amplification gain for a communication signal according claim 20 wherein said first unit increments the amplification level by a predetermined unit.

25 23. The system for adjusting amplification gain for a communication signal according claim 20 further comprising a cable for connecting said first unit and said second unit to transmit the amplified communication signal.

5 24. The system for adjusting amplification gain for a communication signal according
claim 20 further comprising an antenna connected to said second unit and a network
connected to said first unit.